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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/591,628	11/16/2007	Chaker N. Adra	A0852.70000US01	1403
	7590 02/08/201 IFIELD & SACKS, P.0		EXAMINER	
600 ATLANTIC	C AVENUE		BERTAGNA, ANGELA MARIE	
BOSTON, MA 02210-2206			ART UNIT	PAPER NUMBER
			1637	
			MAIL DATE	DELIVERY MODE
			02/08/2011	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/591,628	ADRA, CHAKER	N.
Office Action Summary	Examiner	Art Unit	
	ANGELA M. BERTAGNA	1637	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence ad	ddress
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	PATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be to will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	N. imely filed in the mailing date of this c ED (35 U.S.C. § 133).	
Status			
1) ☐ Responsive to communication(s) filed on <u>01 F</u> 2a) ☐ This action is FINAL . 2b) ☐ This 3) ☐ Since this application is in condition for alloware closed in accordance with the practice under E	s action is non-final. Ince except for formal matters, p		e merits is
Disposition of Claims			
4) ☑ Claim(s) 1-6,9-16 and 49 is/are pending in the 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☑ Claim(s) 1-6,9-16 and 49 are subject to restrict	wn from consideration.		
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposed applicant may not request that any objection to the Replacement drawing sheet(s) including the correct should be sheeted to by the Examine 11). The oath or declaration is objected to by the Examine 20.	cepted or b) objected to by the drawing(s) be held in abeyance. Setion is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 C	, ,
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applica prity documents have been receiv uu (PCT Rule 17.2(a)).	tion No ved in this National	Stage
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail I 5) Notice of Informal 6) Other:	Date	

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DETAILED ACTION

Status of the Application

1. Applicant's response filed on February 1, 2011 is acknowledged. Claims 1-6, 9-16, and 49 are currently pending. In the response, Applicant amended claims 1, 2, 9, 10, 13, 14, and 49 and canceled claims 7, 8, and 17-19. Applicant's amendments to claims 1, 14, and 49 have necessitated the election of species requirement set forth below.

Election/Restrictions

2. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1. More specifically, in the instant case, the each of the different granulocyte-selective markers recited in independent claims 1, 14, and 49 has a fundamentally different structure and function. As a result, the different species are not linked such that they form a single general inventive concept.

The species are as follows:

- (i) Ca2+ channel type A1 D,
- (ii) aquaporin 9,
- (iii) K+ channel Kir 1.3,
- (iv) K+ channel Kir 2.1,
- (v) histamine H4 R,
- (vi) PGEc R type 3a2,
- (vii) EMR-1,

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(viii) GPR,

(ix) Edg-4,

(x) PAR1-like GPR 43,

(xi) GPR77,

(xii) GPR86 purinergic R,

(xiii) PAR2,

(xiv) HTm4,

(xv) fibroblast growth factor R 2,

(xvi) low density lipoprotein,

(xvii) butyrophilin-like R, and

(xviii) leukocyte immunoglobulin-like R A2.

3. Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise require all the limitations of an allowed generic claim. Currently, the following claim(s) are generic: 1-6, 9-16, and 49.

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Requirement for Unity of Invention

4. As provided in 37 CFR 1.475(a), a national stage application shall relate to one invention only or to a group of inventions so linked as to form a single general inventive concept ("requirement of unity of invention"). Where a group of inventions is claimed in a national stage application, the requirement of unity of invention shall be fulfilled only when there is a technical relationship among those inventions involving one or more of the same or corresponding special technical features. The expression "special technical features" shall mean those technical features that define a contribution which each of the claimed inventions, considered as a whole, makes over the prior art.

The determination whether a group of inventions is so linked as to form a single general inventive concept shall be made without regard to whether the inventions are claimed in separate claims or as alternatives within a single claim. See 37 CFR 1.475(e).

WHEN CLAIMS ARE DIRECTED TO MULTIPLE CATEGORIES OF INVENTIONS

As provided in 37 CFR 1.475(b), a national stage application containing claims to different categories of invention will be considered to have unity of invention if the claims are drawn only to one of the following combinations of categories:

- (1) A product and a process specially adapted for the manufacture of said product; or
- (2) A product and process of use of said product; or
- (3) A product, a process specially adapted for the manufacture of the said product, and a use of the said product; or
- (4) A process and an apparatus or means specifically designed for carrying out the said process; or

(5) A product, a process specially adapted for the manufacture of the said product, and an apparatus or means specifically designed for carrying out the said process.

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Otherwise, unity of invention might not be present. See 37 CFR 1.475(c).

5. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected invention or species.

Should applicant traverse on the ground that the inventions have unity of invention (37 CFR 1.475(a)), applicant must provide reasons in support thereof. Applicant may submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. Where such evidence or admission is provided by applicant, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

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6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to ANGELA M. BERTAGNA whose telephone number is

(571)272-8291. The examiner can normally be reached on M-F, 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Gary Benzion can be reached on 571-272-0782. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Angela M Bertagna/

Examiner, Art Unit 1637